

SCC1 Connectivity Kit Compatibility Overview

Application note for connecting Sensirion Sensors to Sensirion SCC1-cables

Summary

The Sensirion SCC1 Connectivity Kit allows to connect Sensirion sensors with Sensirion SCC1-cables. The kit contains 3 cables which allow to connect products from the SLF3x-, LG16- and LS32-series directly to the M8-connector of the SCC1-series. Additional 2 cables have open leads making it easier connecting sensors from the SLF3x-series or the LG16-series to a microcontroller.

1 Introduction

To achieve a different sensor output than the native I2C-interface of Sensirion flow sensors, one can use a product of the SCC1-cable series. These cables allow the conversation of the I2C-interface to UART (with USB-connector), RS485 (with SHDLC-protocol) or an analog output (voltage or current). As the cables feature a M8-connceotor while most Sensirion sensors have a Molex-connector, an adapter cable is needed. This application note explains the compatibility of the liquid flow sensors with the different SCC1-cables and which adapter cables is needed.

2 Content of the SCC1-Adapter Kit

The SCC1 Connectivity Kit (Article number: 3.000.893) contains in total 5 cables: Three cables which allow the connection to SCC1-cables and two cables which end in open leads to allow individual setups. The content of the Kit, the compatibility with sensors and the usage of the adapter are described in Table 1.

Name	Sensirion Article Number	For Sensor	Comments
5pin-Molex <> M8	1-100568-02	LG16-series	For connecting to SCC1-cable
4pin-Molex <> M8	1-100585-01	LS32-series	
6pin-Molex <> M8	1.000.069	SLF3x-series	
6pin-Molex <> pigtail	3.000.096	SLF3x-series	For connecting to individual setup
5pin-Molex <> pigtail	1-100482-01	LG16-series	

Table 1: Content of SCC1-Adapter Kit

Important: Please note that the cables are only available as set and not as individual product.

3 Compatibility with SCC1-Cables

Not all Sensirion liquid flow sensors are compatible with all versions of the SCC1-cables. For an overview, please refer to Table 2.

	Connector type on sensor	SCC1-USB 2m Sensor Cable (1-101007-01)	SCC1-RS485 Sensor Cable (2m: 1-100804-01, 5m: 1-101122-01)	SCC1-ANALOG Sensor Cable (2m: 1-101072-01, 10m: 1-101219-01)	SCC1-CURRENT Sensor Cable (5m: 1-101667-01)
Connector of cable (sensor side)		M8			
Connector of cable (customer side)		USB	Pigtail (open leads)		
Input Signal (sensor side)		I2C			
Output signal (customer side)		Virtual COM port	RS485 / SHDLC	voltage	current
SLG -series		M8, 4-pin, threaded lock according to IEC 61076-2-101 (Ed. 1)/ IEC 60947-5-2	compatible (no adapter cable needed)		
SLI-series					
SLS-1500					
SLQ-series					
LG16-xxxxD	5-pin Molex PCB Header 532610571	compatible with adapter cable "5pin-Molex<>M8" (1-100568-02)			
LG01-2000Axxx		not compatible			
LS32-1500	4-Pin Molex PCB Header 533980471	with adapter cable "4pin-Molex<>M8" (1-100585-01)			
SLF3x-series	6-pin Molex PCB Header 532610671	with adapter cable "6pin-Molex<>M8" (1.000.069)	not compatible		
LPG10-1000	open connector pads	only with LPG10-assembly (1-101513-01)			
LD20-series		with base station (3.000.476)	not compatible		

Table 2: Compatibility chart of Sensirion liquid flow sensors with SCC1-cables

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